AKAI GX-630DB STEREO TAPE DECK

Three Head, Three Motor GX Recording and Playback System. New AC Servo Motor for direct capstan drive. Dolby Noise Reduction Circuit. 10-1/2" reel capacity.

GX Head, AC Servo Motor, Direct Capstan Drive System. Wow and Flutter reduced to 0.06%, Distortion less than 0.5%, S/N Ratio better than 57 dB!

AKAI

GX RECORDING AND PLAYBACK HEADS FOR HIGHER QUALITY AND LONGER LASTING PERFORMANCE

As is well known, the core of Akai's GX Head is made of crystal ferrite and is mounted and set in glass. The superior magnetic properties of the head material and special processing allowed the formation of a perfectly lineal shallow head gap, an acute head surface angle contour, and focusing of the magnetic field into a sharp oblong radius. This focused field system eliminates undue equalization, minimizes high frequency loss, and achieves a wider dynamic range. Further, sound drop-out is eliminated, head-to-tape contact and signal-to-noise ratio improved, and the hardness of the head materials provide dust free and wear free characteristics for longer lasting performance. The GX-630DB exhibits a clear frequency response range covering 25,000 Hz with Akai LN-150-7 Tape.

3 MOTOR DRIVE SYSTEM INCLUDES NEW AC SERVO MOTOR FOR DIRECT CAPSTAN DRIVE

This model employs a 3 motor drive system with a new CPG (center pole generated) AC Servo Motor for direct capstan drive. The quality of this outstanding motor plus the elimination of rubber belts and flywheels results in the realization of a 0.06% Wow and Flutter factor. Two eddy current outer rotor motors complete the drive system for completely stable performance and excellent tone quality. Impedance Roller and Tension Levers also add to tape travel stability.

10-1/2" REEL CAPACITY

A Reel Size Selector and standard accessory 10-1/2" reel hub adapters facilitate the use of 5, 7, or 10-1/2" reels. Further, this model features "quick tension" wherein ideal take-up and back tension is applied to the reels at the beginning of tape start for smooth operation regardless of reel size.

QUICK PAUSE CONTROL

When Pause Mode is effected, the tape remains in contact with the heads and the pinch roller separates from the capstan only slightly so that when the Pause Lever is released, re-start is fast and smooth. Pause Control is especially convenient for editing tape.

FEATHER-TOUCH FULL DIRECT FUNCTION CHANGE CONTROL

Feather-touch Full Direct Function Change Control for speedy mode change. This feature includes direct function change to recording mode for easy add-on recording.

MICROPHONE AND LINE MIXING O.K.

A built-in mic-line mixing circuit and independent Microphone and Line Input Level Controls facilitate easy sound mixing from separate sources.

DUAL MONITORING

A Tape/Source Monitor Switch enables comparison of source signals with the recording being made for more professional recording results.

INCLUSION OF DOLBY NR CIRCUIT BANISHES TAPE HISS

The Dolby Noise Reduction Circuit works to proportionately adjust the signal frequency and signal level by raising low level signals prior to recording and lowering them by the same amount at playback time. This process eliminates extraneous noise, thus, also eliminating tape hiss.

AUTOMATIC STOP FOR OPERATING SAFETY

The Automatic Stop/Tension Arm drops at the end of the tape, activating an automatic stop mechanism which completely stops reel movement for operating safety.

OUTPUT LEVEL CONTROL

Can be adjusted to correspond with amplifier input enabling connection with any amplifier.

OTHER OUTSTANDING FEATURES include a Remote Control Jack for remote control of all operating functions as well as absentee recording with optional accessory Remote Control Unit RC-17, a Tape Selector Switch for use of Low Noise or Wide Range Tape, and a convenient lift-up type head cover for easy head block accessibility.

STANDARD ACCESSORIES

Connection Cords	1 set
10-1/2" Reel Hub Adapters	1 set
Empty Reel	1
Spare Fuses	1 set
Operator's Manual	1

* Spare fuses not included with CEE, CSA, UL and LA models.

TECHNICAL DATA

Track System	4 track 2 channel stereo/monaural system
Reel Capacity	Up to 10-1/2" reel
Tape Speed	7-1/2 and 3-3/4 ips (± 0.7%)
Wow and Flutter	Less than 0.06% RMS at 7-1/2 ips Less than 0.09% RMS at 3-3/4 ips
Frequency Response	30 Hz to 25,000 Hz (± 3 dB) at 7-1/2 ips using Akai LN-150-7 Tape 30 Hz to 19,000 Hz (± 3 dB) at 3-3/4 ips using Akai LN-150-7 Tape
Distortion	Less than 0.5% (1,000 Hz "0" VU) at 7-1/2 ips
Signal-to-Noise Ratio	Better than 57 dB (measured via tape with peak recording level of + 6 VU) Dolby Switch ON: Improves up to 10 dB above 5 kHz
Erase Ratio	Better than 70 dB
Bias Frequency	100 kHz
Heads	(3): One GX playback, One GX recording, and one erase head
Motors	(3): One AC Servo motor for capstan drive, two eddy current motors for reel drive
Fast Forward and Rewind Time	120 seconds using a 2,400 ft. tape
Output Jacks	Line (2): 0.775 V (0 VU) Phone (1): 30 mV/8 ohms
Input Jacks	Microphone (2): 0.25 mV Line (2): 70 mV
Din Jack	0.5 V/2.5 mV
Semi Conductors	Transistors 64, Diodes ■, FET 2
Power Requirements	U.S.A. and Canada Models: 120 V, 60 Hz only CEE Models: 220 V, 50 Hz only Other Models: 100 V to 240 V, 50/60 Hz (Switchable)
Power Consumption	100 W (CEE), 90 W (CSA)
Dimensions	440 (W) × 485 (H) × 240 (D) mm (18.3 × 17.4 × 9.4")
Weight	19.5 kg. (42.9 lbs)

*For improvement purposes, specifications and design are subject to change without notice.

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